CAAS Audio

Elysian Audio Server (EAS)

User Manual

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Elysian Audio Server (EAS) Overview

The Elysian Audio Server (EAS) is an extension of the reference standard DAS, machined from a single piece of aluminium, incorporating an integrated Pre-amp with remote volume control, single ended & balanced outputs and additional power supplies with improved isolation.

The EAS is a true reference designed for the discerning Audiophile. Our aim was to produce an outstanding sounding, unsurpassed audio server and consolidate several very expensive units into one thus bringing true high end performance to a much lower price point.

The EAS has an extremely low noise floor with greater spacial refinement, dynamic accuracy and fine detail retrieval than any other CD Player, audio server or pre-amp on the market.

The EAS is an audio server with an integrated pre-amp and is capable of driving a power amplifier directly, thus replacing up to 4 separate units (e.g. CD transport, DAC, pre-amp, PSUs) and interconnects.

The EAS is an extremely versatile audio server with four USB inputs, network capability through a LAN connection and an S/PDIF input. The EAS is primarily an audio server and the best performance will be achieved when files are accessed from a USB pen or Hard Disk Drive (HDD). Alternatively digital audio can be streamed from either a NAS, PC, tablet or smart phone over the LAN connection. A CD transport or other devices can be connected to the EAS S/PDIF input, however this input bypasses our bespoke low jitter re-clocking system and therefore is not the primary input.

The EAS has been designed to produce the highest audio quality possible. This has been achieved through our custom bespoke 8 wire digital interface, featuring 176.4k samples per second up-converting parallel DACs, data buffering and ultra low jitter clock, allowing near perfect data re-clocking and bit perfect I^2S type digital signal transfer.

The EAS is fitted with a Raspberry Pi 2 micro computer and a bespoke ultra low jitter re-clocking system that up-samples digital data to 176.4k samples per second and feeds a parallel arrangement of 16 bit R-2R DACs. The EAS is fitted with eight dedicated discrete regulated power supplies for both Left and Right analogue channels and seven separate regulated supplies for the digital sections.

All music files and data can be accessed through the on screen interface once the EAS has been connected to a TV or monitor (though HDMI). If the TV has HDMI CEC then all the EAS functions can be accessed through the TV remote, alternatively the functionality can be accessed through a LAN interface, tablet or smart phone. A tablet or smart phone can also be used to control the pre-amp section and volume control.

The EAS is fitted with single ended and balanced variable (volume control) outputs. These can be connected directly to a power amplifier. The single ended outputs have the purest most direct connection to the DACs, with just one JFET in the signal path. The balanced outputs have more circuitry in the signal path, however many power amplifiers will perform better though the balanced connection and as a result, with certain amplifiers, truly excellent sound reproduction can be achieved through balanced inter-connection.

Volume control is achieved through a state of the art 128 step, silver contact relay switched, fixed precision resistor volume control. This is a state of the art complex system of switching relays, however sonically it out performs all standard potentiometer based volume controls.

All the analogue signal sections of the EAS are DC coupled from DAC ICs to the output and have a very short signal path.

The power supply is a key component in achieving the maximum performance from the audio sections and for this reason the EAS is fitted with a high specification mains filter and three separate transformers, one for the analogue sections and two for the digital sections.

CAAS Audio EAS Features

EAS unique features:

- Bespoke software based on the award winning open source Kodi (XBMC) media centre.
- Plays music from an external 3.5" hard drive or USB Pen.
- Stream music over your network from tablets, smart phones and laptops (Windows shares/DLNA/UPnP).
- Two analogue inputs, USB, LAN and S/PDIF.
- Sample rates up to 24 bit / 192kHz (16 bit / 96kHz S/PDIF).
- Accepts multiple file formats (WAV, FLAC, AIFF, ALAC, APE etc...).
- HDMI output for navigating music files on a flat screen TV.
- HDMI CEC control via TV remote (CEC enabled TVs only).
- Alternate control through networked devices (smart phones, tablets, web browser etc...).
- Remote control volume, input select and standby function, accessible via network connected smart device (tablet, smart phone etc...).
- Parallel 176.4k up-sampling R-2R DACs.
- A single, ultra linear, ZERO feedback, JFET Class A buffer stage.
- A 128 step, relay switched, fixed resistor volume control.
- 15 regulated power supplies including 8 dedicated discrete regulated supplies.
- Separate transformers for the analogue and digital sections.
- DC Coupled from input to output.

CAAS Audio EAS Specification

Gain:	0dB to -50dB & Mute (128 steps) +3dB for XLR output
Frequency Response:	
Pre-amp RCA Outputs	0.2Hz to 1MHz (-3dB) Pre-amp DC Coupled 10Hz to 100kHz (-0.1dB)
Pre-amp XLR Outputs	0.8Hz to 400kHz (-3dB) Pre-amp DC Coupled 10Hz to 50kHz (-0.1dB)
Analogue RCA Input	4V RMS (Max at 0dB Gain)
Analogue RCA Output	4V RMS (Max)
Analogue XLR Output	3V RMS Balanced (Max)
Input Impedance	> 27 kohms
Output Impedance	60 ohms (Pre-amp RCA) 360 ohms per phase (Pre-amp XLR) 110 ohms (DAC RCA)
Preamp THD	< 0.01% @1kHz (0dB level, 2V RMS, RCA output) < 0.03% @1kHz (0dB level, 2V RMS, Balanced XLR output)
DAC THD	< 0.03% @1kHz (0dB level, 2V RMS output)
Crosstalk	<-90dB
Output SNR (A-WTD)	~100dB
Output DC Offset	+/-1mV
Power Consumption	< 20W < 0.5W (Standby)
Fuse Rating	T500mA
Analogue Inputs	2 x L/R Pair RCA
Analogue Outputs	1 x L/R Pair RCA (Variable) 1 x L/R Pair XLR (Variable) 1 x L/R Pair RCA (Fixed Line Level DAC output)
Digital Inputs	1 x RCA (S/PDIF) 4 x USB (connect to hard drive or PC)
Network Inputs	1 x RJ45 LAN (wired connection)
Video Output	1 x HDMI (with CEC capability)
DAC	Parallel 176.4k up-sampling 16Bit R-2R DACs
Mains Transformers	3 x 15VA (toroidal)
Dimensions	80mm high, 350mm wide, 330mm deep
Weight	8.6kg

Subject to change without notice.

Supported Devices / Peripherals

WiFi adapter: EDiMax EW-7811Un
Recommended Apps: CAAS Audio Remote App (for Android) & Official XBMC Remote (for iOS)

Important Precautions (Mandatory)

Water and moisture
The EAS should not be used near water. Care should be taken not to allow the EAS to fall into water or other liquids and ensure that liquids are never spilled onto or into the EAS.

Power sources
The EAS voltage and current rating is indicated on the rear panel of the unit. This will state either 240Vac or 120Vac. Two T1A time-lag fuses are included for 120V versions and two T0.5A fuses are included for the 240V versions. The input frequency rating of the power supply is 50Hz to 60Hz. The EAS typically draws less than 20W during the normal operation. Please verify that the indicated voltage requirement is consistent with the mains voltage in your location.

Grounding
We provide a standard IEC AC main cable that fits into the rear of the EAS. The EAS is equipped with an earth ground provided by this cable and connection. DO NOT defeat this ground, the EAS should always be grounded. It is dangerous to operate the EAS without a ground connection. Additionally the EAS may not function correctly without a ground connection.

Power and Signal cables
The EAS is supplied with a power cable that meets UK legislated requirements. As with all audiophile equipment the power cable should be the last item attached and the first item removed whenever equipment is added or removed from the audio chain. Any cables (power or signal) should never be connected or removed while the equipment or supporting equipment is powered up. Failure to pay attention to this precaution may result in damaged equipment.

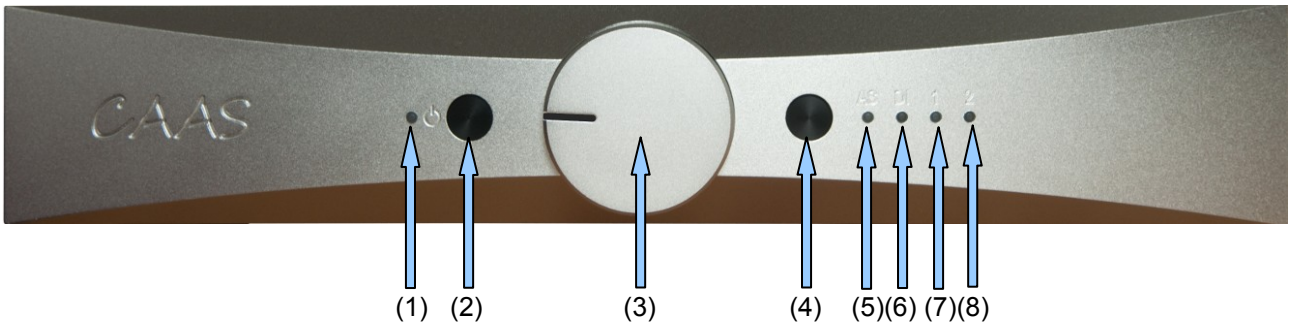
Ventilation
Audio equipment may run hot. The installation must allow for this heat dissipation. We recommend free air circulation around the product. This can best be achieved by leaving at least a 20cm gap around the unit. The EAS should not be installed or situated near any other source of heat (e.g. central heating radiator or on top of an amplifier).

Servicing
To reduce the risk of fire, electrical shock or other injuries, the user should not attempt to service the EAS. Please do not open the EAS. There are no user serviceable parts inside the EAS. Opening the EAS will invalidate any warranty offered. Servicing must be referred to qualified service personnel only.

Burn in period
When you first power up the EAS, you may not experience the maximum performance of this audio server, the EAS can require a burn in period of up to 100 hours. Additionally the performance of the EAS can vary slightly over its warm up period.

Software upgrades and updates
Software upgrades and updates should only ever be performed through the EAS configuration page. Under no circumstance update Rasbmc or Kodi as this will overwrite the CAAS Audio digital interface kernel and the unit will have to be returned to the manufacturer.

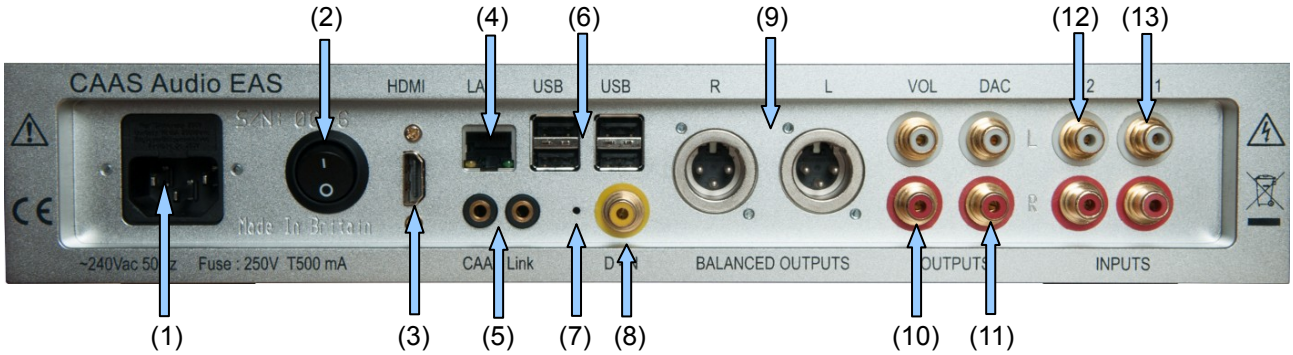
EAS Front Panel Explained



1. Standby LED (red for standby).
2. Standby / On select button.
3. Volume control knob.
4. Input select button (toggles through inputs).
5. **AS** LED (Audio Server input selected).
6. **DI** LED (Digital S/PDIF input selected, D IN on the rear panel).
7. **1** LED (Analogue input 1 selected).
8. **2** LED (Analogue input 2 selected).

The selector switch on the front panel cycles through the inputs. By pressing and releasing this button, you can toggle through the inputs, audio server **AS**, S/PDIF input D in **DI**, analogue input one **1**, analogue input two **2** and then back to **AS** etc... Audio server **AS** is the default turn on selection.

EAS Rear Panel Explained



1. Mains power input and Fuse.
2. Power switch.
3. HDMI should be connected to a CEC enabled TV, using a CEC enabled cable.
4. LAN allows the Audio Server to be networked and accessed through the network, web server, tablet and smart phone.
5. CAAS Link (12V trigger for the control of CAAS power amplifiers).
6. Four USB ports mainly used for external storage devices.
7. Factory reset button.
8. D IN is an S/PDIF input, selected through the front panel as the **DI** selection.
9. Balanced outputs (variable volume for connection to power amps).
10. Single ended outputs (variable volume for connection to power amps).
11. The DAC output is a fixed line level output straight from the DAC. **DO NOT CONNECT STRAIGHT TO A POWER AMP!**
12. Analogue input two (selection 2 on the front panel).
13. Analogue input one (selection 1 on the front panel).

Using & Controlling the EAS

The Elysian Audio Server is primarily an audio server with integrated pre-amp. The audio server has an S/PDIF input at the rear that can be selected by the **DI** selection on the front panel. This allows third party digital sources to be connected to the audio server, such as CD transports. It should be noted that by far the best audio quality playback will be achieved through using the audio server as it is intended, that is as a dedicated audio server (the **AS** input selection on the front panel) and not through third party connected devices. The EAS also has 2 analogue inputs (**1** & **2**). Note: The S/PDIF input bypasses CAAS Audio's low jitter re-clocking system, so this advantage can not be utilised with this input.

TV CEC Control

If your TV is CEC enabled you can control the audio server using the TV remote:

1. Connect a CEC enabled HDMI cable between the TV and the HDMI port on the rear of the audio server. (Note: On some TVs only HDMI port 1 is CEC enabled).

2. If the EAS does not recognise the CEC connection, turn off both the TV and audio server and then back on again whilst the HDMI cable is connected.

3. Once CEC has been recognised, you can scroll through the music files stored on the USB media. Play track, pause, stop etc... is all viewable through the on screen interface.

Network Control

You can control the audio server from other devices connected to your network, such as a smart phone or tablet. To do this you must first install the **CAAS Audio Remote App** or **Official XBMC Remote** on your smart device. The procedure is highlighted below in the **Installing & Setting up XBMC & CAAS Audio Remote Apps** section, page 18.

Web Interface

The web interface can be accessed on port 80 by opening a web browser and typing the EAS IP address followed by :80 (e.g. **://192.168.1.14:80**) into the URL bar. **The EAS IP address** will pop up in the right hand bottom corner of the TV on EAS boot up (the EAS must be networked first for this to happen). Alternatively you may be able to type the host name followed by :80 (i.e. **http://EAS:80**). Note: this may not work with some routers.

The web browser interface can be used to navigate around the HDMI connected TV interface, adjust the EAS volume or browse through and play tracks from your music library (see section **Building an XBMC Music Library,** page 30).

The EAS IP address can also be found through other techniques, such as downloading the App **Fing** to your smart phone / tablet. You can then run Fing and it will display the IP addresses of all devices connected to your network. Alternatively if CEC is enabled on your TV, you can use the TV remote to scroll to **System → System info** where the IP address will be displayed.

Adjusting the EAS Volume

The EAS volume can be changed through the following methods:

1. Manually using the volume knob on the front of the EAS.

2. Remotely using the **CAAS Audio Remote** App.
   (see section **Using CAAS Audio Remote App**, page 21).

3. Remotely using the **Official XBMC Remote** App.
   (see section **Using Official XBMC Remote App**, page 28).

4. Remotely on your PC using a web browser.
   (see section **Using & Controlling the EAS**, page 8).

Changing the EAS Input

The EAS input can be changed either by:

1. Pressing the input select button on the front of the EAS (just right of the knob).

2. Pressing the input select button on the **CAAS Audio Remote** App (bottom right of the screen),
   (see section **Using CAAS Audio Remote App**, page 21).

Note: Pressing the EAS input select button will toggle through the inputs, **AS**, **DI**, **1**, **2** and then back to **AS**.

Recommended EAS Switch On & Shut Down procedure

The EAS should always be shut down in a controlled manner just as you would a PC or laptop. The rear panel mains switch should only ever be turned off while the EAS is in standby mode, not while the EAS is on.

Switching the EAS ON

1. Switch the rear panel mains switch ON.
2. The EAS will now be in Standby mode (Red front panel LED illuminated).
3. Press the front panel Standby / ON button next to the red LED.
4. The red LED will go OFF and the blue AS LED will come ON.
5. The EAS may take up to 30 seconds to boot. You will hear relays switching during this period.
6. The EAS is now ready to use.

Placing the EAS into Standby mode

The EAS should always be shut down in a controlled manner just as you would a PC. This can be achieved in the following ways:

1. By pressing the front panel Standby button (the red LED will illuminate).
2. By navigating on a HDMI TV (using either a CEC TV remote, web browser or smart device):
   - Select the **Power icon** in the bottom left corner of the screen.
   - Then toggle down and select **Power off system**.
   - The computer will then power down and the EAS will enter Standby mode.
3. By using a **web browser** and selecting the **power down icon** (see section **Using & Controlling the EAS**, page 8).
4. By using the **CAAS Audio Remote** App on an Android smart device (see section **Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18):
   - Select the **remote** screen from the menu.
   - Click on the **Power down icon**.
   - Then select **Shutdown**.
5. By using the **Official XBMC Remote** App on an iOs Apple device (see section **Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18):
   - Click on the **Power down icon** (top right on the CAAS App and bottom right on the iPad App).
   - Then select **Power off.**

The **CAAS Link** outputs will be activated while in Standby mode and when connected to CAAS power amplifier, will power down the amplifiers.

Switching the EAS OFF

The EAS can be fully **Powered OFF** by switching the rear panel mains power switch to the **OFF** position. This should only be done while the EAS is in Standby mode.

Note: The **CAAS Link** outputs will not work when the EAS has been turned off at the rear mains switch.

Quick Start

The next few pages are designed to help you play music quickly (with reduced functionality).

EAS set up time can be reduced and music can be accessed reasonably quickly with reduced functionality and without building music libraries. To access all the functionality, sources will need to be added to Kodi (XBMC) and music libraries will need to be built. Adding sources and building libraries can take a large amount of time. The procedure to achieve this is explained in the following sections.

Adding Music Files to your USB Storage

We recommend you use EAC (exact audio copy). Download and install EAC onto your PC / Laptop and RIP your CDs using EAC (We recommend WAV or FLAC format). Then simply plug your USB storage into your PC / Laptop and copy the music files across. Once finished, remove the USB device and plug it in to the USB socket on the rear of the EAS. The EAS should then auto-detect the drive and you're ready to go. See the next section for accessing these music files.

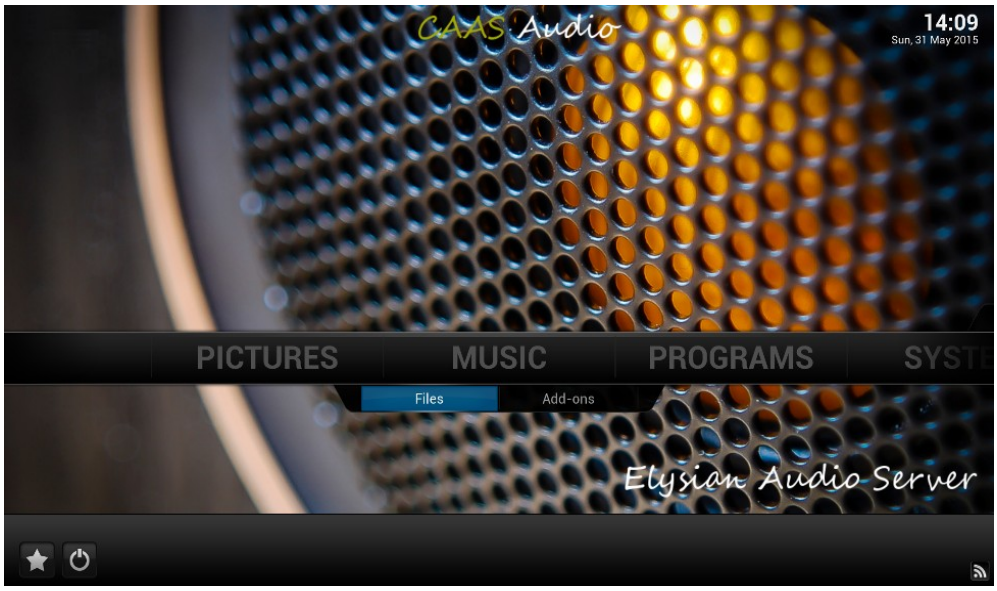
Accessing USB Device Music Files

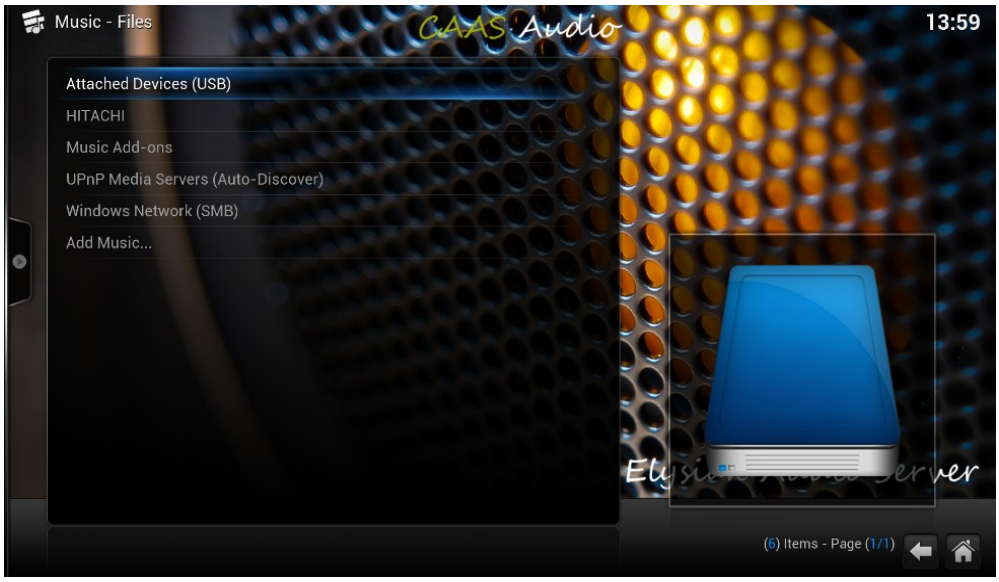
Music can be accessed quickly from a USB device with reduced functionality. This can be done either using a HDMI TV and CEC remote, a web browser or smart device App:

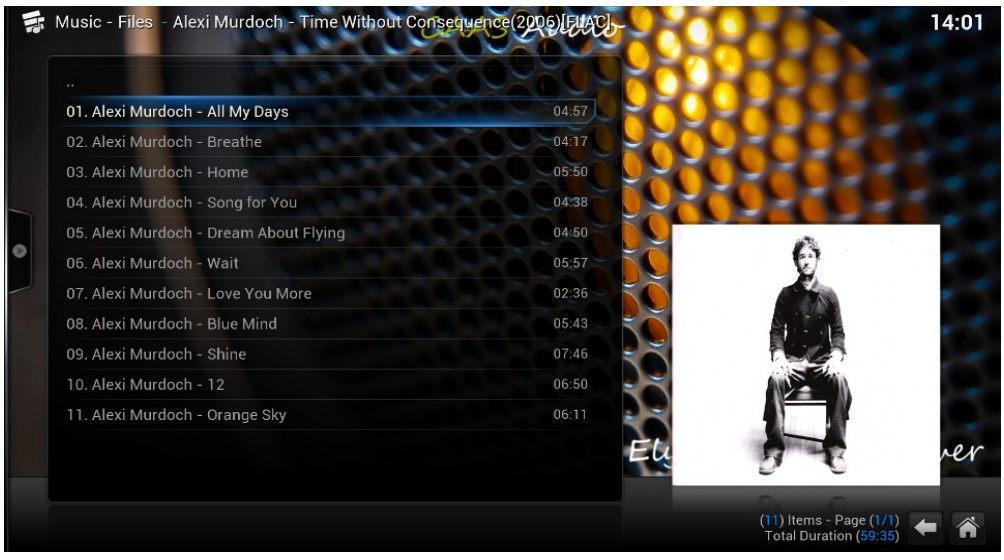
Accessing USB Attached Music with a HDMI TV Connected

1. Insert the USB storage device in one of the rear USB ports.
2. Connect a HDMI TV to the EAS.
3. Turn the EAS ON (The EAS will take approximately 30 seconds to boot).
4. Navigate on the TV using either a CEC enabled TV remote, web browser or smart device running either **CAAS Audio Remote** App (Android) or **Official XBMC Remote** App (iOS Apple), (see section **Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18).
5. Select **Music** → **Files** → **Attached Devices (USB)** and navigate to your desired storage (see screen shots below).

Note: The EAS will need to be networked if you are using a smart device App or web browser to navigate. Connect the EAS to your router via a standard LAN cable.


CAAS Audio
14:09
Sun, 31 May 2015
PICTURES
MUSIC
PROGRAMS
Files
Add-ons
Elysian Audio Server


Music - Files
CAAS Audio
13:59
Attached Devices (USB)
HITACHI
Music Add-ons
UPnP Media Servers (Auto-Discover)
Windows Network (SMB)
Add Music...
(6) Items - Page (1/1)


Music - Files - Alexi Murdoch - Time Without Consequence (2006) [FLAC]
14:01
01. Alexi Murdoch - All My Days 04:57
02. Alexi Murdoch - Breathe 04:17
03. Alexi Murdoch - Home 05:50
04. Alexi Murdoch - Song for You 04:38
05. Alexi Murdoch - Dream About Flying 04:50
06. Alexi Murdoch - Wait 05:57
07. Alexi Murdoch - Love You More 02:36
08. Alexi Murdoch - Blue Mind 05:43
09. Alexi Murdoch - Shine 07:46
10. Alexi Murdoch - 12 06:50
11. Alexi Murdoch - Orange Sky 06:11
(11) Items - Page (1/1)
Total Duration (59:35)

Accessing USB Attached Music with NO TV connected

Using an Apple Smart Device

If you are using an Apple smart device, Install the **Official XBMC Remote** App on the Apple device (see section **Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18).

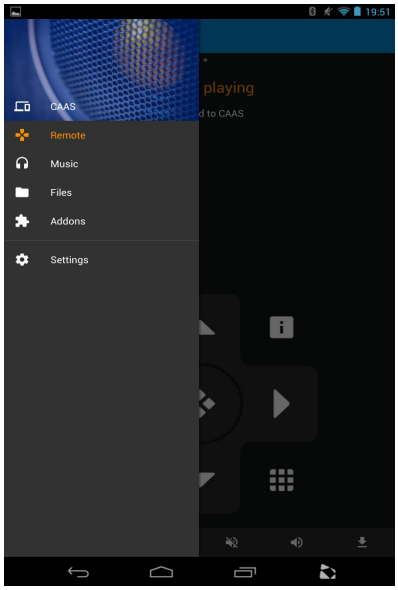
1. Select **Music** (top left corner).
2. Then select the **Folder** icon (at the bottom).
3. You should then have the following choices: **Music Add-ons, Attached Devices (USB), UPnP Media Servers (Auto-Discover) and Windows network (SMB).**
4. Choose the appropriate protocol for your network and navigate to the desired storage.
5. The albums, artists and songs should all be listed and will play by selecting them.

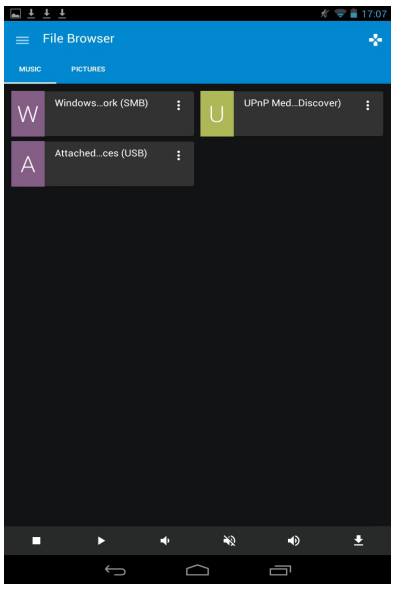
Using an Android Smart Device

If using an Android smart device, Install the **CAAS Audio Remote** App on the Android device (see section **Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18).

1. Select **Menu** (The 3 horizontal lines in the top left corner).
2. Then select **Files.**
3. You should then have the following choices: **Attached Devices (USB), UPnP Media Servers (Auto-Discover) and Windows network (SMB)** (See screen shot below)**.**
4. Choose Attached Devices (USB) and navigate to the desired storage (e.g. **Attached Devices (USB)** → **Music**).
5. The albums, artists and songs should all be listed and will play by selecting them.
6. Note: A music library can be built by selecting the 3 small vertical dots on the right hand side of the main music folder and then selecting **scan to library**.

Note: The EAS will need to be networked. Connect the EAS to your router via a standard LAN cable.



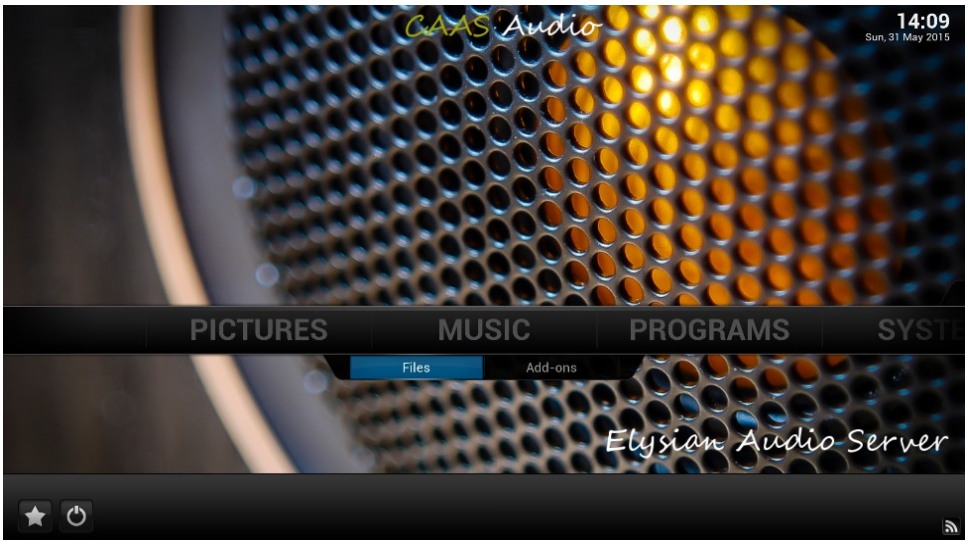


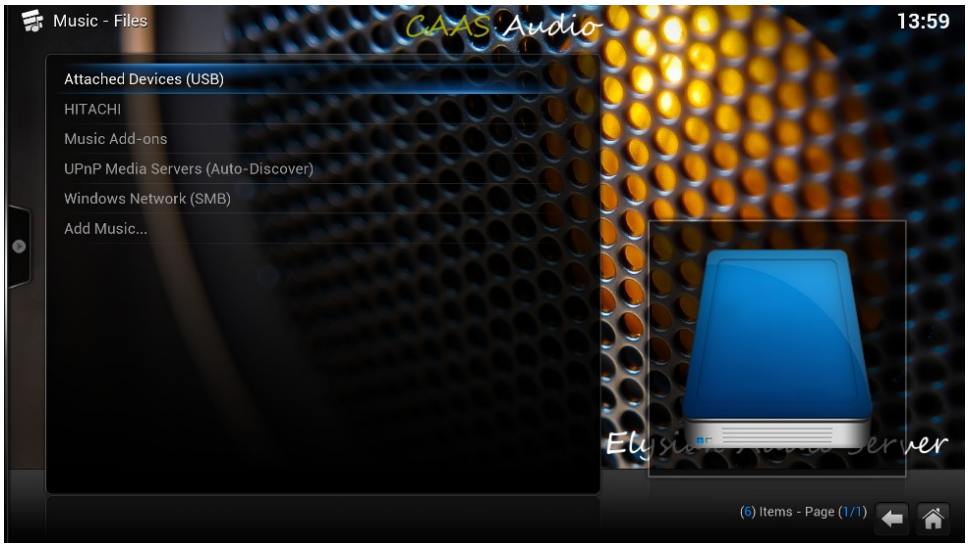
Accessing Music from a Network connected device

UPnP and SMB servers can be accessed quickly (with reduced functionality) for near instantaneous network music play, however the interface will probably list file names only. For full album art a music library will need to be built (see section **Building an XBMC Music Library**, page 30).

Accessing NAS Music with a HDMI TV Connected

1. The EAS will need to be networked (Connect the EAS to your router via a standard LAN cable).
2. Connect a HDMI TV to the EAS.
3. Turn the EAS ON (The EAS will take approximately 30 seconds to boot).
4. Navigate on the TV using either a CEC enabled TV remote, web browser or smart device running either **CAAS Audio Remote** App (Android) or **Official XBMC Remote** App (iOS Apple), (see section **Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18).
5. Select **Music → Files → UPnP Media Servers (or Windows network SMB)** and navigate to your desired storage (see screen shot below).





Accessing NAS Music with NO TV connected

Using an Apple Smart Device

If you are using an Apple smart device, Install the **Official XBMC Remote** App on the Apple device (see section **Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18).

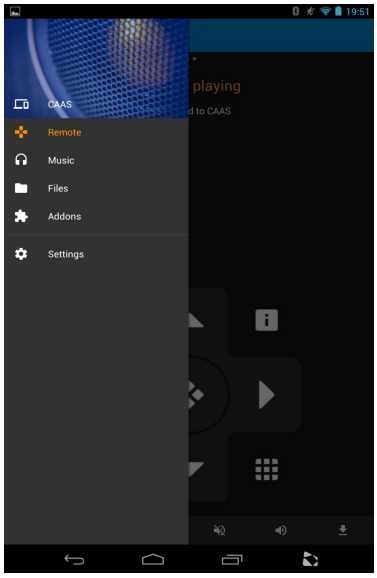
1. Select **Music** (top left corner).
2. Then select the **Folder** icon (at the bottom).
3. You should then have the following choices: **Music Add-ons, Attached Devices (USB), UPnP Media Servers (Auto-Discover) and Windows network (SMB).**
4. Choose the appropriate protocol for your network (UPnP or SMB) and navigate to the desired storage and music folder (e.g. **Windows network (SMB)** → **Workgroup** → **NAS** → **Music**).
5. The albums, artists and songs should all be listed and will play by selecting them.

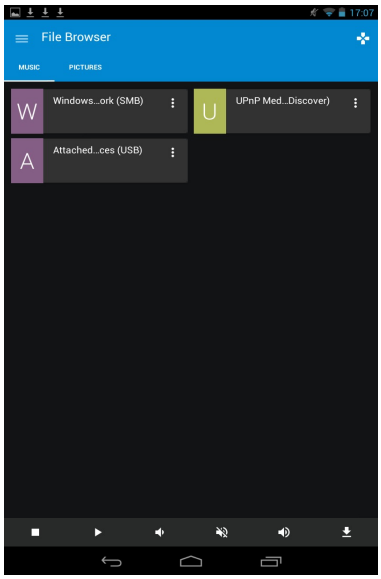
Using an Android Smart Device

If using an Android smart device, Install the **CAAS Audio Remote** App on the Android device (**Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18).

1. Select **Menu** (The 3 horizontal lines in the top left corner).
2. Then select **Files.**
3. You should then have the following choices: **Attached Devices (USB), UPnP Media Servers (Auto-Discover) and Windows network (SMB).**
4. Choose the appropriate protocol for your network (UPnP or SMB) and navigate to the desired storage and music folder (e.g. **Windows network (SMB)** → **Workgroup** → **NAS** → **Music**).
5. The albums, artists and songs should all be listed and will play by selecting them.
6. Note: A music library can be built by selecting the 3 small vertical dots on the right hand side of the main music folder and then selecting **scan to library**.

Note: The EAS will need to be networked. Connect the EAS to your router via a standard LAN cable.





DLNA / UPnP Audio Interface, Networking & File Sharing

The EAS can connect to a home network and play audio files stored on DLNA / UPnP enabled devices.

The EAS can be connected to a TCP/IP network via a wired connection. Network connection enables the EAS to play audio files stored on DLNA / UPnP servers, computers and network drives. The EAS has a standard Ethernet socket fitted on the rear panel. For wired network connection this socket should be connected to a spare Ethernet socket on your network router.

Networking the EAS

1. Connect a CAT5 LAN cable to the LAN port on the rear of the EAS and the other end to a free LAN port on your router.

2. The EAS should now be networked. The EAS is DHCP aware by default, so if connected to a DHCP enabled router (most are), your router will assign an IP address to the audio server.

3. You should be able to access the audio server through the assigned IP address. If you download **Fing App** for your smart device it will scan all your network attached devices and return their IP address etc.. this can be quite useful.

4. Alternatively you can view / adjust the IP address and other setting in the **EAS Configuration** window on your TV (see section **CAAS Audio Configuration Set Up**, page 33).

5. If you are using a smart device, the **CAAS Audio Remote** App will scan your network, find the EAS and also display the IP address (see section **Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18).

Note: For UPnP and SMB protocols to operate correctly, the EAS will require the right time and date. As soon as the EAS detects an internet connection, it will automatically update it's time and date. This may take a minute or two. If the EAS is connected to a network that does not have an internet connection and the EAS time and date are wrong, then SMB and UPnP protocols may not function correctly.

Windows Network (SMB) file sharing

This is the preferred method of sharing files between the EAS and Windows network devices or NAS.

1. Connect the network cable between the EAS and your router.

2. Ensure that file sharing is enabled on your window device (PC / Laptop) or NAS.

3. On the EAS: You will need to add the shared device as a media source. You can do this by selecting **Music → Files →Windows network (SMB)** and then selecting the appropriate discovered device.

4. Alternatively by selecting: **Music → Files → Add source→ Browse → (and scroll down to) Windows network (SMB)** (See screen shot below).

5. Select your workgroup / shared folder and then select OK. You may need to select OK on the next screen as well.

You should now be able to access / view your shared files as you would a local device / drive from the main menu. From the Home screen, select **Music → Files** and your shared device should be listed.

Note: You may be prompted for a user name and / or password. This will be your router / system password.

Accessing a UPnP Network Device

This option is only to be used to access other UPnP devices (e.g. file sharing between two XBMC devices). The procedure is fundamentally the same as SMB sharing:

1. Firstly you need to enable UPnP on the source XBMC device (the files you wish to share / access).

2. On the EAS, you will need to add the source device as a media source: This can be done easily on a CEC connected TV by selecting **Music → Files → UPnP Media Servers (Auto-Discover)** and then selecting the appropriate discovered device.

3. Alternatively by selecting: **Music → Files → Add source→ Browse → (and scroll down to) UPnP Devices** (see screen shot below).

4. Select the source that you wish to share. You may wish to re-name the source.

5. You should now be able to access / view your shared files as you would a local device / drive from the main menu. Select **Music → Files** and your shared device should be listed.

Installing & Setting up XBMC & CAAS Audio Remote Apps

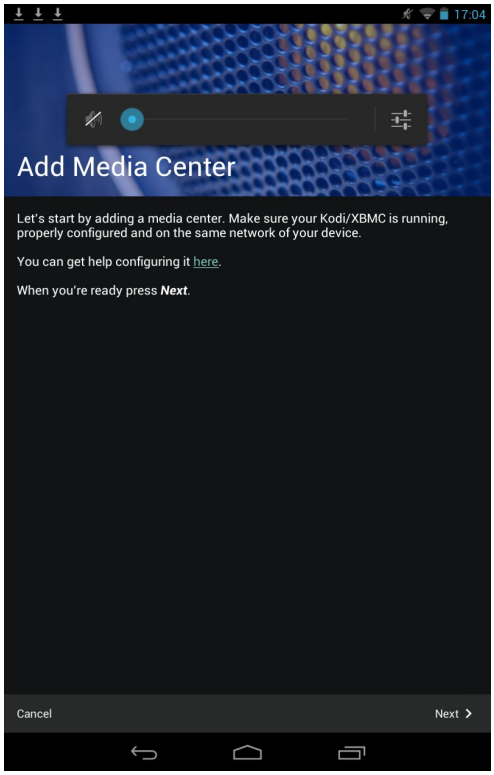
There are many Kodi (XBMC) control Apps on the market. Some will work well and others will not. We have designed our software to work with the **CAAS Audio Remote** App for an android operating system and **Official XBMC Remote** for an Apple (iOS) operating system.

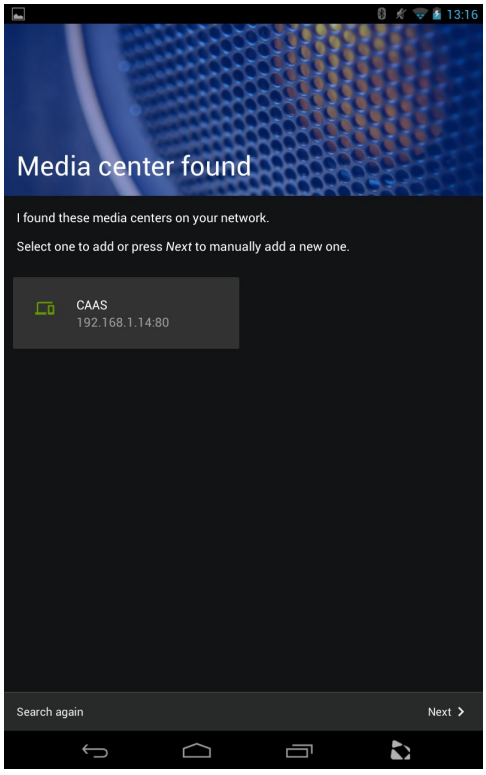
Installing CAAS Remote on an Android Device

The CAAS Audio Remote App can be downloaded free from the Google play App store or from the CAAS Audio website (www.caasaudio.com).

Note: The following procedures may differ slightly from device to device:

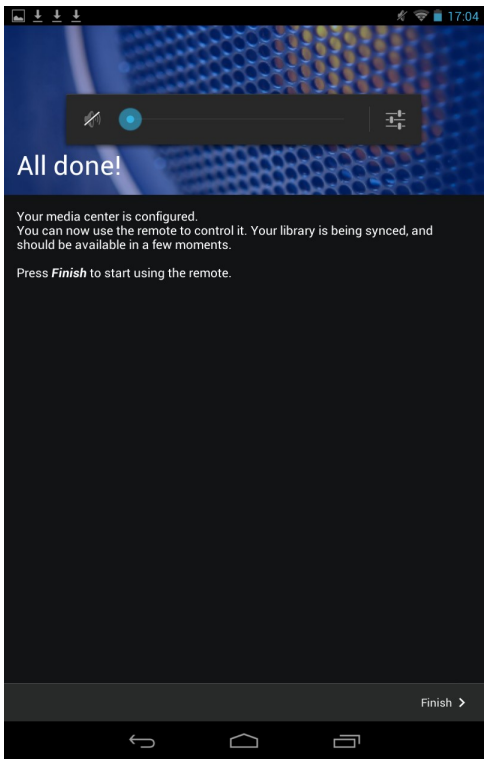
1. Download **CAAS Audio Remote** App to the device you wish to use.
2. Install the **CAAS Audio Remote** App and select the CAAS icon to **Launch** the CAAS App.
3. If this is the first launch of the App, you will be taken directly to the set up screen (see below).
4. Click on **next** and the App will search for the CAAS equipment. Select **CAAS** once it has been found. If the EAS is not found, click **search** again (see screen shot below).

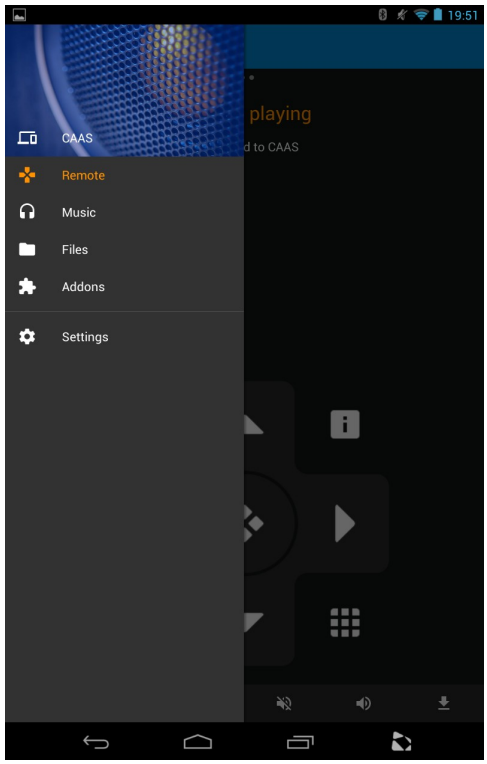

17:04
Add Media Center
Let's start by adding a media center. Make sure your Kodi/XBMC is running, properly configured and on the same network of your device.
You can get help configuring it here.
When you're ready press Next.
Cancel
Next



5. Once the EAS has been found, select it and you will then see the **All done** screen (see below).
6. Select **Finish** and you will be taken to the menu screen (see screen shot below).

Note: If you are downloading from the CAAS Audio website, you may need to select **Allow installation of apps from unknown sources** in the smart device settings menu.

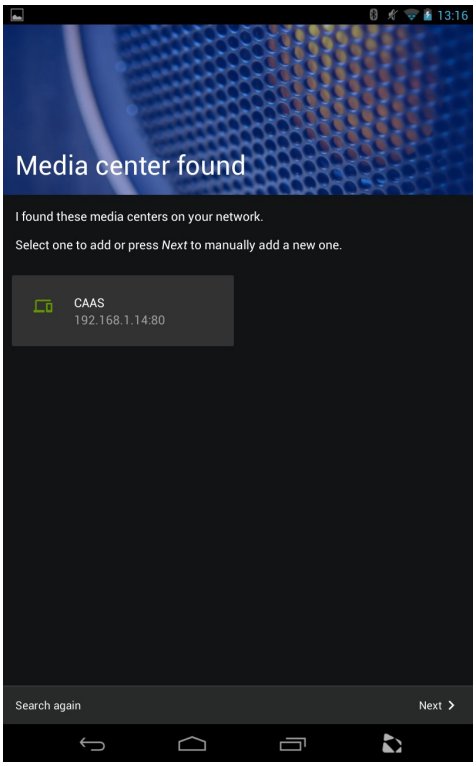

17:04
All done!
Your media center is configured.
You can now use the remote to control it. Your library is being synced, and should be available in a few moments.
Press Finish to start using the remote.
Finish

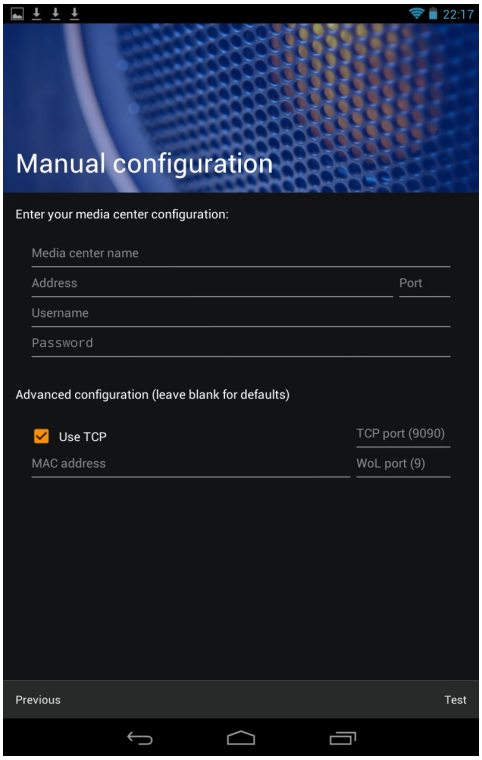


Manual Set up of the CAAS Audio Remote

If the EAS can not be found or you wish to set it up manually click next after the first search and you will be directed to the manual set up window where the IP address and port can be entered (see screen shots below).

Note: Use port 80 (e.g. 192.168.1.14:80) and leave the **username** & **password** blank, they are not needed.

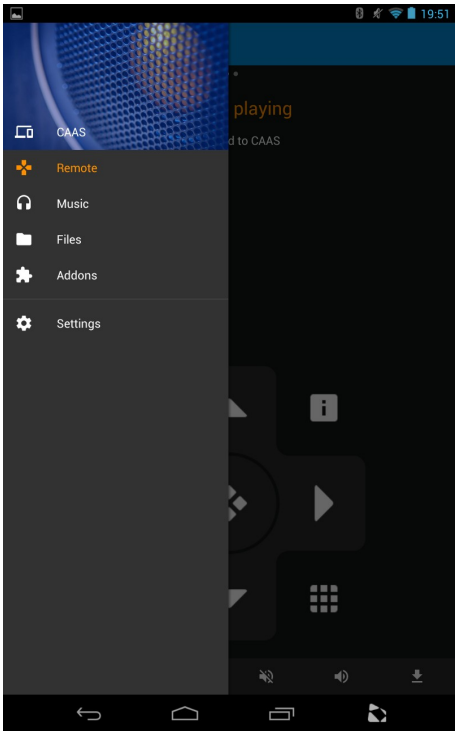


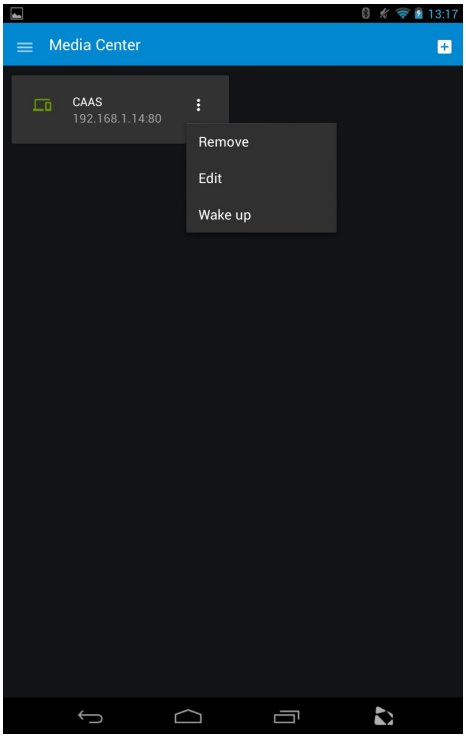


Set up after the App has been run or when adding an alternative media centre

If this is not the first time the App has been run or you wish to add an alternative media centre, you will need to do the following:

1. Launch the **CAAS Audio Remote** App.
2. Access the main menu. The menu can be accessed by tapping the 3 horizontal line button in the top left corner or by swiping from left to right (see screen shot below).
3. Select the top picture box with may already read **CAAS**.
4. From this screen you can **Add / Edit / Remove and Select** your media centres (see below).
5. To add another media centre, click the **+** icon in the top right corner.
6. Then select **Next** to scan for devices. If no devices are found select **Scan again**.
7. Once the media centre is found, select the device and click **Finish**.
8. To edit or remove a current media server, select the 3 small vertical dots at the right of the media centre icon (see screen shot below).





If the EAS can not be found or you wish to set it up manually click **next** after the first search and you will be taken to the manual set up window where the IP address and port can be entered. Use port 80 (e.g. 192.168.1.14:80).

Notes:

- **The EAS IP address** will pop up in the right hand bottom corner of the TV on EAS boot up (the EAS must be networked) or can be found by scrolling to **System** → **System info**.
- **The EAS IP address** can also be found by using the App **Fing** on your smart phone / tablet.

Using CAAS Audio Remote App

All the functions can be accessed from the menu screen. The menu can be accessed by tapping the 3 horizontal line button in the top left corner or by swiping from left to right (see screen shot below):

1. Open / Run the **CAAS Audio Remote** App.

2. Select the **Menu** screen (three lines in the top left corner or swipe from left to right).

3. Select **Remote** to bring up a remote key pad. This will allow you to navigate all the EAS functions viewable on a HDMI TV (see screen shot below).

    - There are 3 screens available in the remote section (**Remote**, **Now playing** & **Playlist**). Swipe the screen sideways to access them.

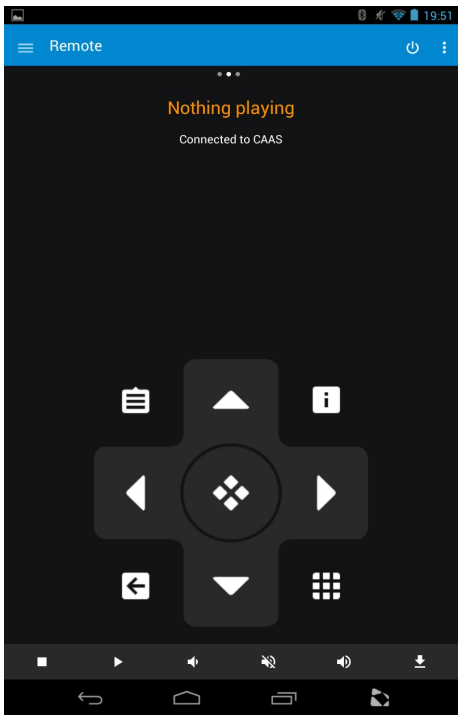
4. Select **Music** to bring up your whole music library (a library must be built first, see section **Building an XBMC music library**, page 30).

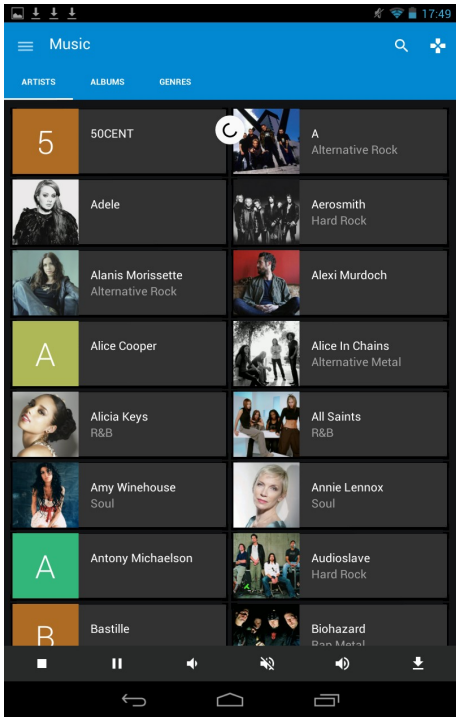
5. The **CAAS Audio Remote** App will need synchronising with the EAS:

    - While in the **Music** window, press the screen and swipe down to sync (see below).
    - You will see **a whirling arrow** (if you have a large music library this may take a while).
    - When finished, the arrow will disappear and the message **sync successful** will appear for a short time. Your music library will be stored along with all thumbnails and cover art.

6. You can now scroll though your music library and select and play any tracks you wish.

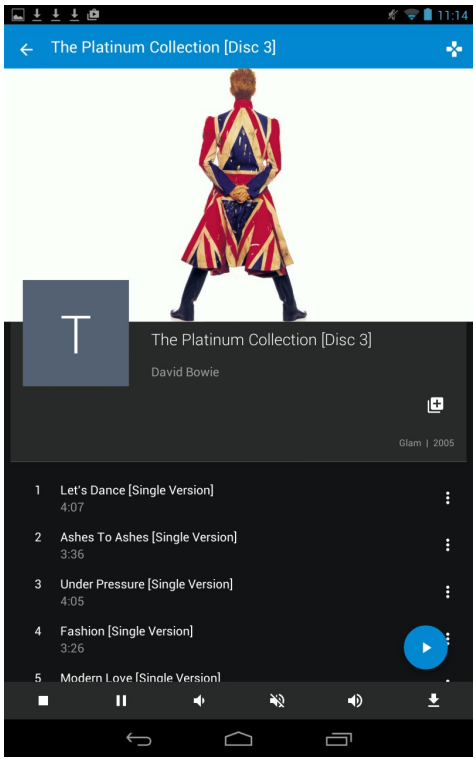
7. If you swipe sideways you can switch between **Artists**, **Albums** and **Genres**.

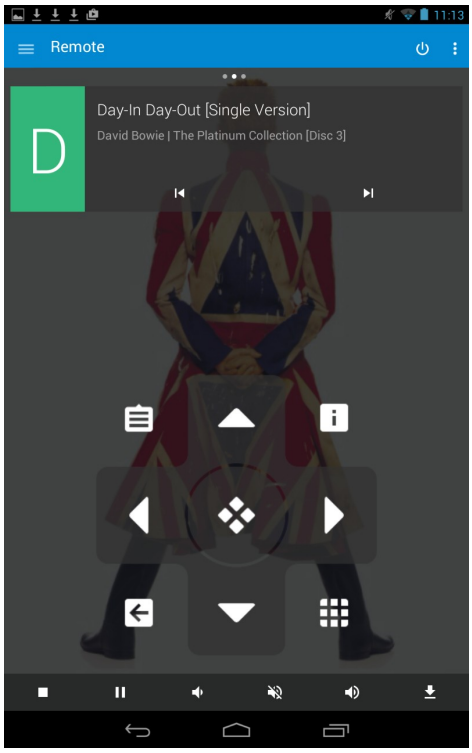




8. To play an album or song, select the relevant album or artist, this will either bring up the artist's albums (then select the one you want) or the song list of the album selected (see screen shots below).

9. To play the full album select the blue play button towards the bottom right of the screen. This will load the whole album into your playlist and take you to the remote screen (see below).

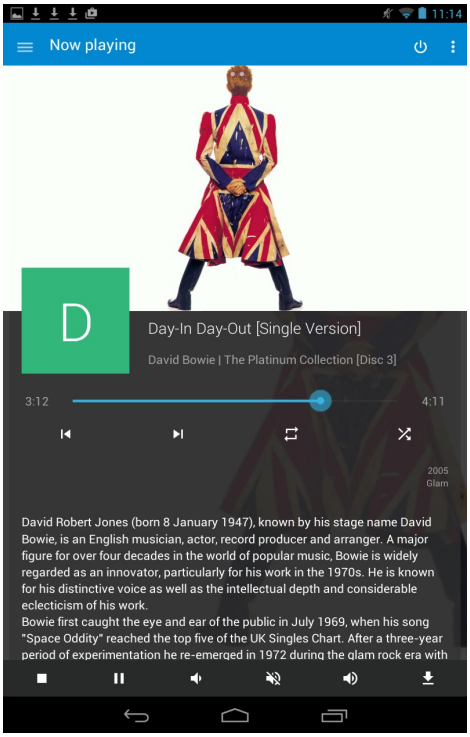

11:14
The Platinum Collection [Disc 3]
T
The Platinum Collection [Disc 3]
David Bowie
Glam | 2005
1 Let's Dance [Single Version] 4:07
2 Ashes To Ashes [Single Version] 3:36
3 Under Pressure [Single Version] 4:05
4 Fashion [Single Version] 3:26
5 Modern Love [Single Version]



10. Alternatively you can play a single track by just selecting the track.

11. If you wish to build a playlist, select the 3 vertical dots at the right hand side of the song / track and then select **Add to playlist** (see section below **Building a Playlist**).

12. Album information can be viewed on the **Remote** screen by swiping from left to right until the **Now playing** screen is visible (see screen shot below).


11:14
Now playing
D
Day-In Day-Out [Single Version]
David Bowie | The Platinum Collection [Disc 3]
3:12
4:11
2005
Glam
David Robert Jones (born 8 January 1947), known by his stage name David Bowie, is an English musician, actor, record producer and arranger. A major figure for over four decades in the world of popular music, Bowie is widely regarded as an innovator, particularly for his work in the 1970s. He is known for his distinctive voice as well as the intellectual depth and considerable eclecticism of his work.
Bowie first caught the eye and ear of the public in July 1969, when his song "Space Oddity" reached the top five of the UK Singles Chart. After a three-year period of experimentation he re-emerged in 1972 during the glam rock era with

Building a Playlist

A playlist can be built by using the CAAS Audio Remote App and doing the following:

1. Select the **Menu** screen (three lines in the top left corner or swipe from left to right).

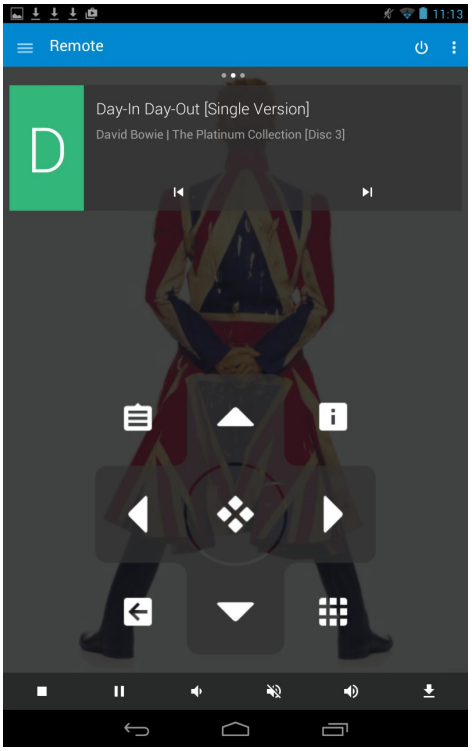
2. Select **Music** to bring up your whole music library (a library must be built first, see section **Building an XBMC music library**) and synchronised.

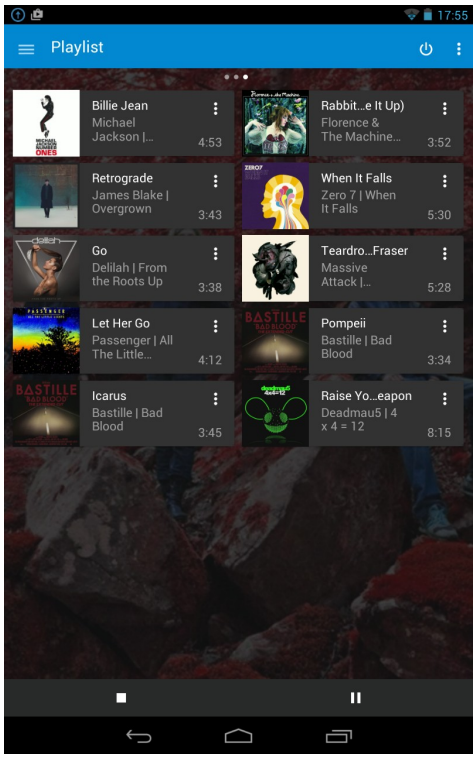
3. Scroll though your music library, when you find a track you wish to add to the playlist, click on the 3 vertical dots at the right hand side of the track and then select **Add to playlist**.

4. Repeat step 3 above for different tracks from other albums until your playlist is built.

5. Alternatively the whole album can be added to the playlist by selecting the **blue play button** near the bottom right corner of the screen while you are in the album screen.

6. The Playlist can be viewed from the **Remote** screen by swiping from right to left (see screen shots below).





CAAS Audio Remote App Volume Control & Input Select

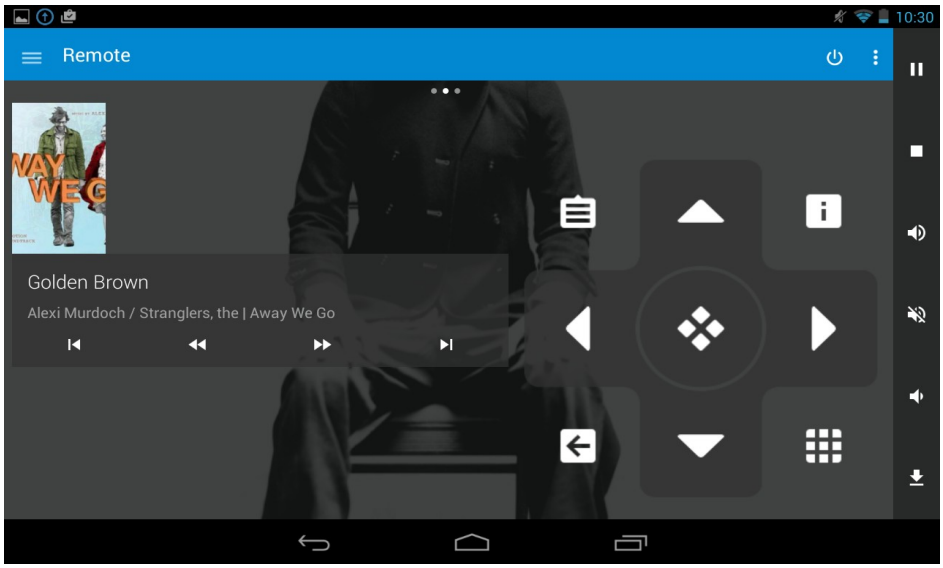
The EAS volume can be controlled from your smart device.

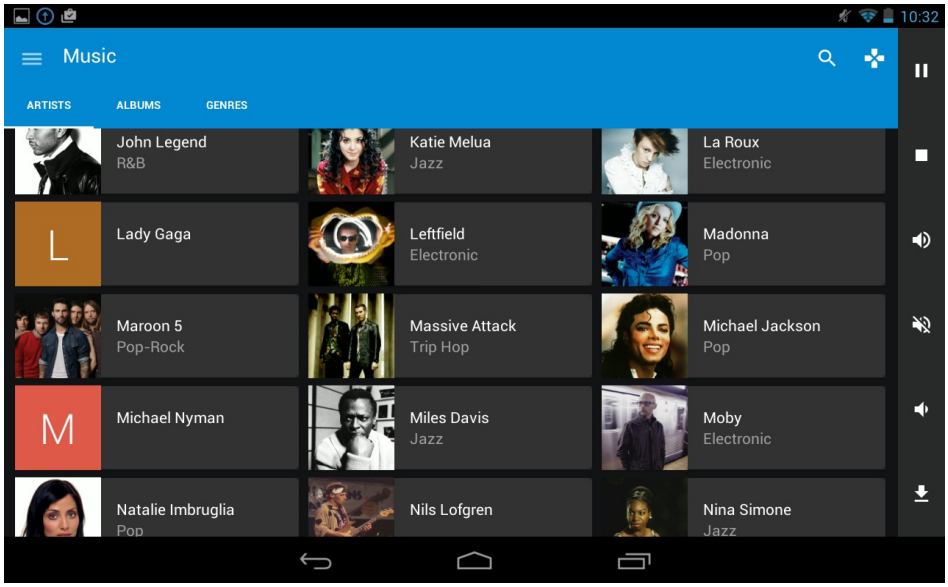
The volume control can be found at the bottom of every screen of the **CAAS Audio Remote App**, when in portrait mode. When in Landscape mode the volume control can be found at the right hand side of every screen (see screen shots below).

This will control the EAS volume, you will see the knob move on the EAS and the volume status can be seen on a HDMI connected TV.

Using the Tablet or Phone's hardware volume control

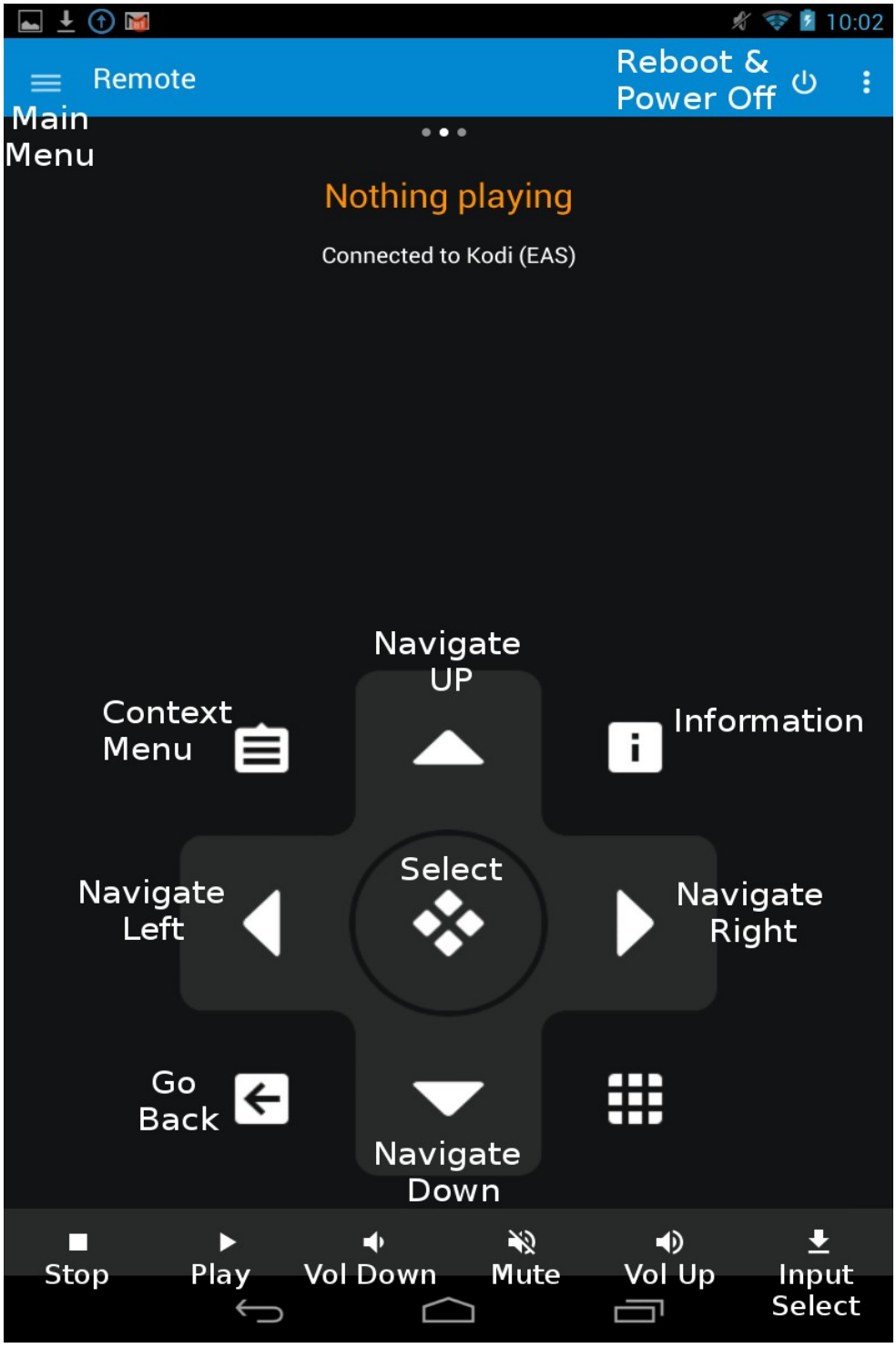
The tablet or phone's (smart device) hardware volume control (normally situated on the left side of the phone / tablet) can be used to control the EAS volume. The **CAAS Audio Remote App** must be running for this to work.





CAAS Audio Remote Control Help

The CAAS Audio Remote control buttons and descriptions can be seen below:



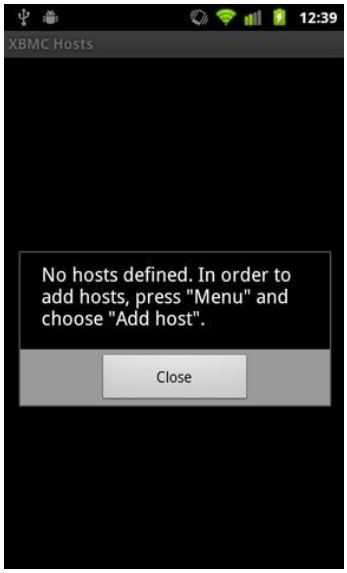
Installing Official XBMC Remote on an Apple Device

CAAS Audio recommend the **Official XBMC Remote** App for an Apple (iOS) platform. Alternative Apps are available, however we can not guarantee successful operation with other Apps.

Note: The following procedures may differ slightly from device to device.

The **Official XBMC remote** App can be installed by performing the following steps:

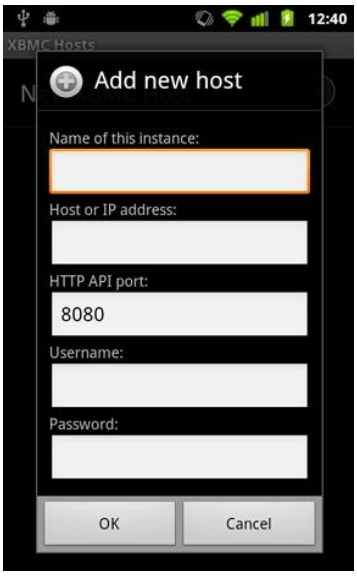
1. Make sure the EAS is networked.
2. Download (from the App store) and install **Official XBMC remote** on your iOS (Apple) smart device.
3. Open / Run **Official XBMC remote** on your smart phone or tablet.
4. Once installed and running you should see the following screen (this will differ slightly for an iPad).



5. You'll be notified that there are **No hosts detected**.
6. On an iPad: Select **Add Host** (it will be at the bottom of the box) and then select **Find XBMC**.
7. On an iPhone: Select **Settings**.
8. The App will then automatically find XBMC hosts on your network.
9. If the correct host has been found (**CAAS**) then Click **Save**.
10. Then select the appropriate host from the list (**CAAS**) and you should be connected.

If Auto-detect fails to find the correct host then the information will need to be entered manually, as follows:

1. Click on **Manually add a host** and dismiss the error message should one appear.
2. You will see a form where you can define how to connect to XBMC on the Audio Server (see below).



3. Enter the following:
   - **Name:** CAAS
   - **Host or IP:** Enter the EAS IP address (recommended), **see notes below**. Also you may be able to enter the host name here **CAAS** although this may not work with some routers.
   - **HTTP API:** 80 (NOT 8080 as shown above)
   - **Username:** (leave blank)
   - **Password:** (leave blank)

4. Click **Done**

Notes:

- **The EAS IP address** will pop up in the right hand bottom corner of the TV on EAS boot up (the EAS must be networked first for this to happen and a TV connected to the EAS HDMI port).

- **The EAS IP address** can also be found by using the App **Fing** on your smart phone / tablet. Alternatively if CEC is enabled on your TV, you can use the TV remote to scroll to **System** → **System info** where the IP address will be displayed.

- **Leave the login and password blank**, they are not needed.

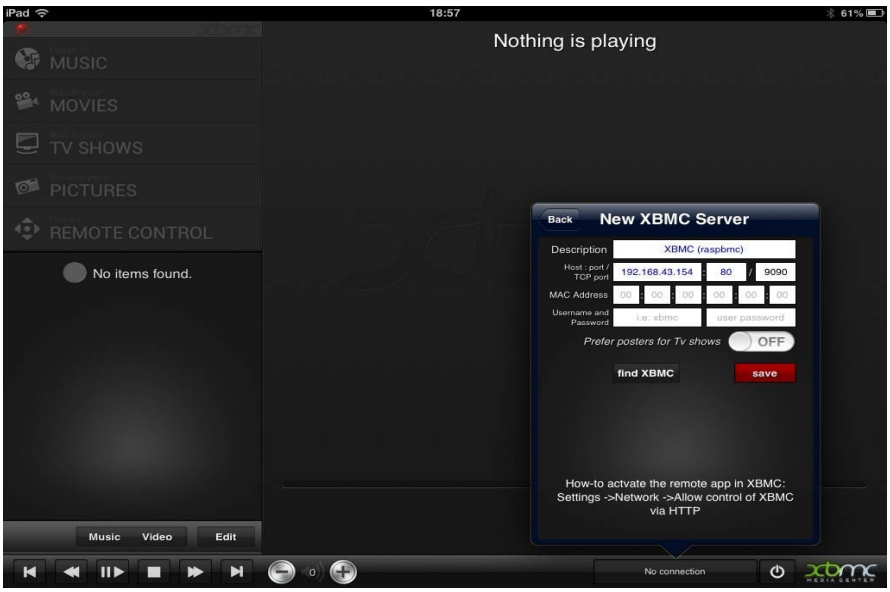
- The EAS needs to be running before you configure **Official XBMC Remote.**

Adding a Host at a later time

You can add a host / connect to the EAS at any time by navigating as follows:

1. On an iPhone:
   - **Menu** → **Settings** → **Manage XBMC Hosts**.

2. On an iPad:
   - At the bottom of the screen you should see a box that reads **No connection.**
   - Click on the **No connection** box and the **New server** screen should pop up (see below).
   - Select **Find XBMC**.
   - The App should auto-detect the EAS and fill in the IP address and port.
   - If the auto-detect does not work or finds the wrong host, then fill in each box manually, as above.
   - Click **Save.**
   - Then select the host you want from the list and you should be connected (see below).

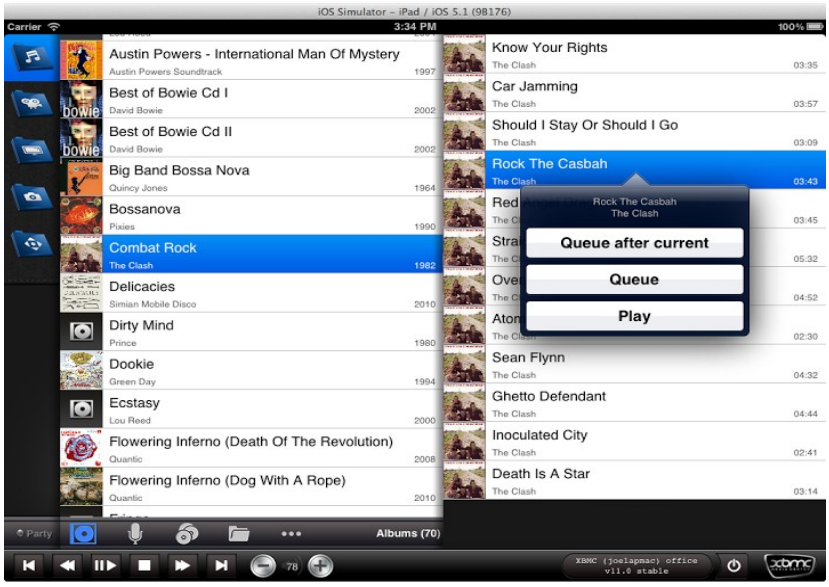


Using Official XBMC Remote App

Once a library has been built (see section **Building an XBMC Music Library**, page **30**) you can synchronise **Official XBMC Remote** with the EAS. Your music library will then be stored along with all thumbnails and cover art.

Official XBMC Remote can be synchronised with the EAS by:

1. Start **Official XBMC Remote App**.
2. Select **Music** from the **menu** window (left hand side window).
3. Then select either the **Artists** or **Albums** icon from the bottom of the new right hand side window.
4. Place your finger in the window, press and hold while dragging downwards.
5. At the top of the screen, you should see the message **Release to sync with XBMC**.
6. Release your finger to see the message **Syncing** (for a large library, this may take a while).



Using Official XBMC Remote volume control

On an iPad: The volume control can be found at the bottom of the main screen window. This will control the EAS volume, you will see the knob move on the EAS and the volume status can be seen on a connected TV.

Using a iPhone's hardware volume control

The iPhone's (smart device) hardware volume control (normally situated on the left side of the phone) can be used to control the EAS volume. The **Official XBMC Remote** App must be running for this to work.

Official XBMC Remote Control Help

The Official XBMC remote control buttons and descriptions can be seen below:

Carrier
6:48 PM
QUICK HELP
REMOTE CONTROL
DISMISS X
ACTIVATE MUSIC WINDOW IN GUI
ACTIVATE MOVIES WINDOW IN GUI
ACTIVATE TV SHOWS WINDOW IN GUI
ACTIVATE PICTURES WINDOW IN GUI
TAP ACTIVATE HOME WINDOW IN GUI
NAVIGATE UP IN GUI
TAP SHOWS THE INFORMATION DIALOG / LONG PRESS SHOWS THE CODEC INFORMATION DIALOG
NAVIGATE LEFT IN GUI
NAVIGATE RIGHT IN GUI
SELECT CURRENT ITEM IN GUI
NAVIGATE DOWN IN GUI
TAP GOES BACK IN GUI
TAP SHOWS THE PLAYER CONTROLS (OSD) DIALOG / LONG PRESS SHOWS THE CONTEXT MENU DIALOG
STOPS PLAYBACK
RUNS THRU SUBTITLES
RUNS THRU AUDIO STREAMS
TOGGLE GUI FULLSCREEN
GO TO PREVIOUS ITEM/CHAPTER
TAP SMALL BACKWARD / LONG PRESS DECREMENT PLAYER SPEED
PAUSES OR UNPAUSE PLAYBACK
TAP SMALL FORWARD / LONG PRESS INCREMENT PLAYER SPEED
GO TO NEXT ITEM/CHAPTER

Building an XBMC Music Library

The music library information can be updated / downloaded from online servers. Note: The EAS must be networked and have a connection to the internet for this feature to work.

This feature should allow more information to be displayed on the TV screen and smart device, including cover art and thumbnails.

Building a library can take time. For example a 200GB music library can take an hour or more to build.

Building a Library

A library can be built using either a web browser or a TV CEC remote control (Samsung works well) but is most easily built using a smart device.

To build a library using a smart device, first download and install the **CAAS Audio Remote** App (Android) or **Official XBMC remote** App (iOS, Apple).

The procedure to build a library is as follows:

1. Select **CAAS Audio Remote** (Android) or **Official XBMC** (iOS, Apple) remote control (on the smart device).

2. Using the smart device remote control function to navigate while viewing on the HDMI connected TV, from the home screen select **Music → files**.

3. Hover over the source you want to build a library from (this could be a USB connected device or a networked device).

4. On the smart device press and hold the Context menu.
   - In **Official XBMC Remote** this button looks like 5 horizontal lines, (see **Official XBMC Remote Control Help** section, page 29).
   - In **CAAS Audio Remote** this button looks like 4 horizontal lines in a square box.
   - On a Samsung CEC TV remote this is the **return** button.
   - In a **Web browser** use the **update** button.

5. The context menu should then pop up on the TV; scroll down the menu and select **scan item to library**.

6. Scanning the library may take from a few minutes to several hours, depending on the size of the music library. The status should be displayed on the TV in the top right corner.

IMPORTANT: Building a library takes serious CPU time. Any user interaction with the EAS while a library is being built will slow the build and under extreme circumstances may cause a reboot.

Please Note: Library information and thumbnails are downloaded based on the metadata information stored in your music files and not the music file name, please ensure this metadata is correct to ensure an accurate XBMC music library is created. Different file formats and external applications may have better metadata support than others.

For the library updates and downloads to activate properly please check that the **Download additional information during updates** is enabled in **Settings → Music.** This should be enabled as default.

Updating a current Library

Use this option when new songs / albums are added to your collection. Updating a library is much faster than building a new library.

Using either a CEC TV remote, a web browser, **Official XMBC Remote** (for iOS, Apple) or **CAAS Audio Remote** (for Android) you can instruct the EAS to re-scan the library for just new content. When doing this the EAS does not rebuild the whole library, it just scans for new files / content.

Updating a Library using Official XBMC Remote on an Apple device

1. Click the **Power** icon in the bottom right corner of the App.
2. This will bring up a menu. Select the option **Update Audio Library**.

The progress can be viewed on a HDMI connected TV.

Updating a Library using CAAS Audio Remote on an Android device

1. Click the **menu** button (3 horizontal lines in the top left corner).
2. Select the **remote** screen from the menu.
3. Click on the 3 vertical dots (top right corner).
4. Select **Library maintenance**.
5. Select **Update audio library**.

The progress can be viewed on a HDMI connected TV.

Updating a Library using a CEC TV remote control

1. From the home screen, select **Music** → **Artists (or Albums)**.
2. While hovering over the **2 dots at the top** of the list, press the context menu button (not available on all CEC remotes, on Samsung it is the **return** button).
3. Select **update library**.

The progress can be viewed on a HDMI connected TV.

Updating a Library using a Web browser

The web interface can be accessed on port 80 by opening a web browser on your PC and typing the EAS IP address followed by :80 (e.g. ://192.168.1.14:80) into the URL bar. Alternatively you may be able to type the host name followed by :80 (i.e. http://EAS:80). Note: this may not work with some routers.

1. To update the library press the **update** button under **audio library**.

Note: The remote control function can be used in both **CAAS Audio Remote** and **Official XBMC Remote** to navigate through the TV menu. Both these Apps have the context menu button available (several horizontal lines).

Streaming Music from a smart phone / tablet to the EAS

This procedure differs from device to device, so outlined here is a generic procedure that will be similar to that required (device specific information is readily available on the internet):

1. The EAS must be networked. Connect a LAN cable between the EAS LAN port and your router.

2. Set up a connection between your smart device and the audio server. This can be done using a procedure similar to the following (i.e. 3 to 8) although this procedure may differ from device to device.

3. Make sure your smart device is connected to your home network via WiFi. If you are not sure how to do this, the required information can be found on the internet or in your smart device manual.

4. On your smart device: you first need to install and set up **Official XBMC Remote** (iOS Apple) or **CAAS Audio Remote** (Android), (see section **Installing & Setting up XBMC & CAAS Audio Remote Apps**, page 18).

5. Once a remote has been installed, you should be able to access your music files on your smart device (e.g. on Android: **All Apps** → **Music**).

6. Once in **Music**, there should be an icon for selecting a player, possibly at the top of the screen. Choose **Select player**.

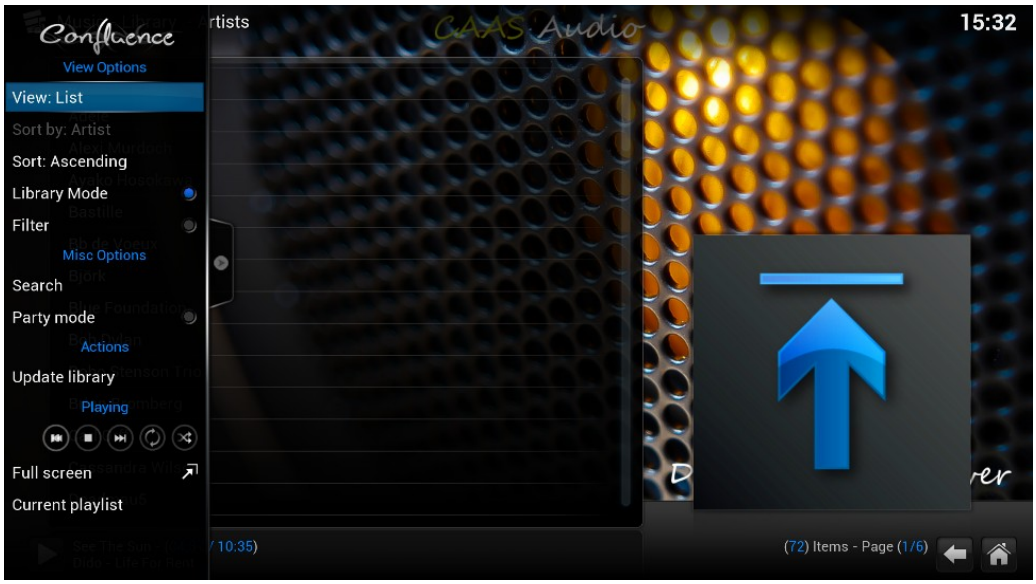
7. Then under WiFi player you should see **CAAS** or similar, select this and hit **Done**.

8. Any music files you play on your smart device should now be sent to the EAS.

Party Mode (Random Song Play)

The EAS is equipped with a Party mode. Once selected the EAS will continuously select random tracks from your music library. This mode will keep the playlist full and therefore continuously play random music.

The party mode can be selected via the HDMI TV connected interface by selecting **Music** and then the **left arrow button** to bring out the **side menu** where **Party mode** can then be activated (see below).



Alternatively by selecting Party mode in the bottom left corner of Official XBMC Remote App (for Apple iOS).

Audio Server Software Update

See section **CAAS Audio Configuration Set Up** below.

CAAS Audio Configuration Set Up

The EAS network settings can be configured under **Programs → EAS Configuration** or **System → EAS Settings.** This procedure is outlined below:

1. Switch the EAS ON, once the audio server has booted.
2. On the TV, scroll right and select the **Programs** menu; this should give you a list of programs.
3. Scroll down to and select **EAS Configuration**; this will open the configuration window.
4. The configuration window has 6 tabs down the left side (System, Network etc...).
5. On the **System** page, you can select: **Check for updates now**, once selected the EAS will search for any CAAS software upgrades. It is recommended to follow the on-screen advice during the upgrade process.
6. Additionally a factory reset can be performed under this window, by selecting **Reset EAS to defaults** (see section **EAS Factory Reset** below).

IMPORTANT: Do NOT reboot or power off the unit during a software update or system reset, this could fatally corrupt the EAS software!

Note: Please refer to your router manual for further details about configuring DHCP and changing device IP addresses should you need to.

Returns, Repairs and Weee recycling

For returns, repairs or Weee recycling, please contact CAAS Audio at info@caasaudio.com or via the contacts page on our website www.caasaudio.com

EAS Factory Reset

Important

The factory reset function is a last resort function.

Warning !

Under no circumstances should the EAS be powered off during the factory reset function as this could result in a catastrophic disk failure and the EAS will have to be returned to the manufacturer.

Please ensure that the EAS is fully powered with no chance of the power disengaging or the standby button being pressed during the factory reset procedure.

! DO NOT power the EAS OFF until the factory reset has fully finished !

Once the factory reset function is activated, all user data (play lists etc..) will be lost, as a full disk format will be undertaken followed by a full software re-install.

It should be noted, that the users music library can be backed up (i.e. exported) up to USB or network storage via the Kodi (XBMC) music settings menu and re-imported after factory reset in the same way. To avoid disappointment as with any system we recommend that you make regular backups of you data and music library. For more information see:

http://kodi.wiki/view/Import-export_library

Initiating a Factory Reset

A factory reset can be performed either by using the factory reset button or via the HDMI user interface.

Performing a reset via the factory reset button on the rear of the EAS:

1. Turn the EAS ON at the rear and make sure the EAS is in Standby mode (the red LED is ON).
2. The reset button is mounted behind a small hole in the rear panel (see photograph of the rear panel in section **EAS Rear Panel Explained**, page 7).
3. Press and hold this button pressed in (using a thin object such as a cocktail stick) while turning the EAS ON (press the front panel standby / ON button). It will need to be continuously pressed while the EAS boots (10 to 15 seconds). The progress can be viewed on a HDMI connected TV.

Performing a reset via the HDMI TV connected user interface:

1. Turn the EAS fully ON (On at the rear and then on at the front, out of Standby mode).
2. Reset the EAS through the on screen interface: **Programs → EAS Configuration → System.**
3. Select **Reset EAS to defaults** (at the bottom of the screen) and follow the on screen instructions.

A full factory reset may take up to 10 minutes to complete. **Important: Do NOT turn off the EAS or undertake the shut down procedure until the full factory reset has finished.**

EAS FAQ

Q: Where is the remote?
A: There is no remote with the EAS, if your TV is HDMI-CEC enabled, the TV remote will operate the EAS. Additionally the EAS can be networked and controlled via smart phones, tablets, web browsers, PCs etc...

There are different trade names for HDMI CEC, depending on who is the manufacturer of your TV, so it doesn't have to be stated as HDMI-CEC, see the below list:

Samsung -	Anynet+
Sony -	BRAVIA Link or BRAVIA Sync
Sharp -	Aquos Link
Hitachi -	HDMI-CEC
AOC -	E-link
Pioneer -	Kuro Link
Toshiba -	Regza Link or CE-Link
Onkyo -	RIHD (Remote Interactive over HDMI)
LG -	SimpLink
Panasonic –	VIERA Link or HDAVI Control or EZ-Sync
Philips -	EasyLink
Mitsubishi -	NetCommand for HDMI

Q: Do I need a remote control because my television does not support CEC?
A: No, you can connect the EAS to your network (via the LAN port on the rear) and use a smart phone, tablet, web browser or PC to control the EAS.

Q: Can I connect a USB WiFi adapter?
A: Yes, however some WiFi adapters are not compatible. We have had good results with EDiMax EW-7811Un.

Q: Can I install add-ons?
A: The on-screen user interface is based on the award winning Kodi software and a number of tested and verified add-ons come pre-installed, please note the installation of additional music add-ons (such as last.fm and shoutcast) is done at the owners own risk. Please also note that any legacy XBMC video add-ons (Youtube, iPlayer etc.) are not supported and will not work, do not install them under any circumstance. There should be no need to install additional add-ons to play, stream music from your home network, or build your music library and cover art.

Q: Can I update Rasbmc or XBMC?
A: NO! under no circumstance update either as this will overwrite our digital interface kernel.

Q: Can I use a 2.5inch HDD?
A: A typical 2.5inch HDD draws its power from the USB port. The EAS may not be capable of supplying the additional power that some 2.5inch HDDs require, others may work perfectly. We therefore recommend that you don't use a 2.5inch HDD.

Q: What is the maximum capacity USB Pen?
A: We recommend a maximum capacity of 64GB (depending on make and model), you may be able to use a 128GB or higher. However if the pen requires more power than the EAS can deliver, it may force the EAS to reboot. If you are experiencing periodic EAS reboots this is more than likely the issue.

Q: Can I use a powered USB Hub?
A: Yes this may allow you to use higher capacity USB pens and possibly even a 2.5inch HDD.

Q: Can I play video?
A: NO, the EAS has been designed to support audio only and any legacy video support in XBMC is not supported.

Warranty (3 Year Guarantee)

To reduce the risk of fire, electrical shock or other injuries, the user should not attempt to service the EAS. Please do not open the EAS. There are no user serviceable parts inside the EAS. Opening the EAS will invalidate any warranty offered. Servicing must be referred to qualified service personnel only.

This warranty is offered in relation to purchases made in the United Kingdom, Eire and European Economic Area (EEA) only and shall be governed by the laws [applying in the country in which purchase of the product takes place]. Consumer statutory rights applying under the laws [pertaining in the country of purchase] shall not be adversely affected by any terms and conditions contained herein. All CAAS Audio products are covered by a standard 3-year manufacturers' warranty. This covers parts and labour, subject to terms & conditions. This warranty is not transferable outside the European Economic Area.

If a CAAS Audio product is defective in normal domestic use, due to a fault in materials or workmanship, CAAS Audio will at its discretion (and subject to the terms contained herein) either repair or replace it free of charge within a reasonable time after return of such product to CAAS Audio during the warranty period. This warranty is offered to the first purchaser only and covers the cost of parts and associated labour required to correct such defects in materials or workmanship arising and advised to your retailer or CAAS Audio during a period of three (3) years from the original date of purchase.

This Warranty does NOT cover:

1. Damage to CAAS Audio products while in the possession of a shipper, retailer, or consumer and not caused by defects in materials or workmanship.
2. Damage or defects caused by abnormal or unreasonable use (including repairs or alterations of products by a person or company other than CAAS Audio).
3. Damage to CAAS Audio products arising due to or from normal wear and tear.
4. Damage resulting from misuse, neglect, abuse, accidents, acts of nature, improper installation, improper removal or cleaning.
5. Damage resulting from failure to follow the instructions in the user manual or repair or attempted repair by unauthorised personnel or company.
6. Initial set-up, check-ups or charges incurred for installation of the product.
7. Any cause other than a product defect due to a fault in materials or workmanship.
8. Any product where the serial number has been defaced, modified or removed.
9. Any CAAS Audio product purchased outside the European Economic Area.

Note: The term "Damage" includes, malfunction, deterioration and failure to meet specifications.

CAAS Audio will pay for all parts and labour covered by this warranty. The purchaser must pay all shipping charges if it is necessary to return the product to CAAS Audio or your retailer. However, if the required repairs are covered by this warranty CAAS Audio will pay for the return shipping to any destination within the UK & Eire. Whenever warranty service is required you must present the original dated sales receipt or other proof of purchase.

The equipment should be packed in its original packing. Do not return your product to CAAS Audio without consulting with and approval from CAAS Audio. If you are returning any product, you should use a reputable carrier - do NOT post. CAAS Audio cannot accept responsibility for the unit while in transit to the retailer or CAAS Audio.

Please ensure that your equipment is insured by you during any transit or shipment for repair.

This warranty applies from the date of purchase for the duration of three (3) years. Under no circumstances will this change. If a product is returned for repair or servicing or other, the remainder of the warranty from the original date of purchase is the warranty given on the repair, service or other and NOT a further three (3) year warranty.